



Advanced XRF equipment and solutions



# ElvaX Mobile

**THE ULTIMATE, RELIABLE AND DURABLE  
PORTABLE XRF ANALYZER**



ElvaX Mobile is a portable EDXRF analyzer for testing a wide variety of materials.

The sampling tray, similar to a benchtop instrument, allows the convenient placement of XRF sample cups. The high-resolution SDD detector and large measurement spot ensure a high count rate, crucial for quick detection of trace elements.

The ElvaX Mobile is a perfect tool for testing soil and petrochemicals or any other applications where testing liquids and powders are required on site. The PDA integrated into the instrument has an intuitive interface as well as a bright, high-resolution screen. ElvaX Mobile can be synchronized with a desktop computer via USB, Wi-Fi or Bluetooth.

- ✓ Excellent calibration stability, compensation of ambient temperature and pressure variations
- ✓ Intuitive interface
- ✓ Mobility
- ✓ Integrated PDA
- ✓ Full compatibility with ElvaX PC software

**ElvaX Mobile combines the mobility and simple operating process of a portable analyzer with the convenience, accuracy, and safety of benchtop laboratory spectrometers.**

## ACCURACY

With advanced hardware and comprehensive software, the ElvaX Mobile offers the most precise and accurate analysis of materials

## SPEED

Dynamically Adaptive Shaping (DAS) DPP developed by Elvatech ensures operation of the ElvaX Mobile at the highest count rates

## STABILITY

Thanks to the digital X-Ray source, automatic temperature and pressure correction, and automatic calibration adjustment, ElvaX Mobile offers long-life reproducibility of the analysis without the need to re-calibrate the system



## CONVENIENT SAMPLE TRAY

The sampling tray, similar to a benchtop instrument, allows the convenient placement of XRF sample cups

## INTUITIVE INTERFACE

The PDA integrated into the instrument has an intuitive interface as well as a bright, high resolution screen.



The instrument is as light and easy to carry as an ordinary briefcase.

All you need is a flat surface to put it on and it's ready for work just in seconds.

## Digital X-Ray Source

digiX-40 (digiX-50)

Anode: W (Rh, Ag)

Voltage: 40 kV (50 kV)

Current: 200  $\mu$ Amp

Power: 4 W (5 W)

5 position filter changer (option)

## X-Ray Detector

Type: Si-PIN (optional SDD)

Area: 6 mm<sup>2</sup> (25 mm<sup>2</sup> for SDD)

Energy resolution: 165 eV @ Mn K $\alpha$  (140 eV for SDD)

## Electronics

DPP: proprietary DAS (Dynamically Adaptive Shaping) type,  
80 MHz sampling rate

MCA: 4096 channels

Display: 4.3"

Connectivity: USB, Bluetooth, Wi-Fi, GPS

High resolution video camera (option)

## General

Dimensions: 380 x 270 x 160 mm

Weight: 5.5 kg

## Software

Operating system: Windows EC7


Analysis algorithms: Fundamental parameters (FPA),

Empirical (regression) calibrations



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